## CLAIMS

- 1. A semiconductor sensor comprising:
  - a substrate:

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- a membrane which is a thin part formed on a top surface of the substrate; and
  - a thick portion which is formed in a portion excluding the thin portion from the substrate; wherein
- a hollow part is formed under the membrane by bonding a bottom of the substrate and a mounting surface on which the semiconductor sensor is mounted;
  - a pressure difference adjusting means is provided for eliminating difference in pressure of a fluid between an inside and an outside of the hollow part while the sensor is in use; and
  - the pressure difference adjusting means is at least a relief hole for the expansion or contraction of a fluid within the hollow part.
  - 2. A semiconductor sensor, as set forth in claim 1, wherein the membrane is provided with the at least a relief hole for the expansion or contraction.
  - 3. A semiconductor sensor, as set forth in claim 1, wherein the at least a relief hole for the expansion or contraction is provided by etching the membrane.
- 4. A semiconductor sensor, as set forth in claim 1, wherein it is any one of an infrared-ray sensor, a gas sensor, an air fuel ratio sensor, a pressure sensor and an acceleration sensor.